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=> s epidural? and (drug delivery)
6 FILES SEARCHED...
L1 1975 EPIDURAL? AND (DRUG DELIVERY)

=> s l1 and catheter?
L2 1121 L1 AND CATHETER?

=> s l2 and electrode#
L3 497 L2 AND ELECTRODE#

=> s l3 and (potential or gradient)
L4 464 L3 AND (POTENTIAL OR GRADIENT)

=> s l4 and iontophore?
L5 13 L4 AND IONTOPHORE?

=> d 15 1-3 ibib abs

L5 ANSWER 1 OF 13 USPATFULL on STN
ACCESSION NUMBER: 2004:145443 USPATFULL
TITLE: Method and system for spinal cord stimulation prior to
and during a medical procedure
INVENTOR(S): Hill, Michael R.S., Minneapolis, MN, UNITED STATES
Jahns, Scott E., Hudson, WI, UNITED STATES
Keogh, James R., Maplewood, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004111118	A1	20040610
APPLICATION INFO.:	US 2003-716810	A1	20031119 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-215443, filed on 9 Aug		

2002, GRANTED, Pat. No. US 6690973 Division of Ser. No. US 2000-669960, filed on 26 Sep 2000, GRANTED, Pat. No. US 6487446

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MEDTRONIC, INC., 710 MEDTRONIC PARKWAY NE, MS-LC340, MINNEAPOLIS, MN, 55432-5604
NUMBER OF CLAIMS: 49
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1297
AB A method of performing a medical procedure, such as surgery, is provided. The spinal cord is stimulated in order to control at least one physiological function. The medical procedure is performed and stimulation of the spinal cord is stopped.

L5 ANSWER 2 OF 13 USPATFULL on STN
ACCESSION NUMBER: 2004:83671 USPATFULL
TITLE: Method and device for enhanced delivery of a biologically active agent through the spinal spaces into the central nervous system of a mammal
INVENTOR(S): Lerner, Eduard N., Amsterdam, NETHERLANDS
PATENT ASSIGNEE(S): Intrabrain NV, Curacao, NETHERLANDS (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004064127	A1	20040401
APPLICATION INFO.:	US 2003-687816	A1	20031020 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-50183, filed on 18 Jan 2002, PENDING Continuation-in-part of Ser. No. US 1998-197133, filed on 20 Nov 1998, GRANTED, Pat. No. US 6410046 Continuation-in-part of Ser. No. US 1998-77123, filed on 20 May 1998, GRANTED, Pat. No. US 6678553 Continuation-in-part of Ser. No. WO 1996-EP5086, filed on 19 Nov 1996, UNKNOWN		

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NIXON & VANDERHYE, PC, 1100 N GLEBE ROAD, 8TH FLOOR, ARLINGTON, VA, 22201-4714
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 926

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A delivery method and implantable apparatus that allows for controlled, enhanced and (pre)-programmable administration of a biologically active agent into the spinal structures and/or the brain via the epidural space of a mammal, particularly of a human being and including a feedback regulated delivery method and apparatus specifically in the treatment of neurological diseases and chronic pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 13 USPATFULL on STN
ACCESSION NUMBER: 2003:260405 USPATFULL
TITLE: Multi-probe system
INVENTOR(S): Kucharczyk, John, Minneapolis, MN, United States
Gillies, George T., Charlottesville, VA, United States
PATENT ASSIGNEE(S): University of Virginia Patent Foundation, Charlottesville, VA, United States (U.S. corporation)
Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6626902	B1	20030930
APPLICATION INFO.:	US 2000-548110		20000412 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Gibson, Roy D.		
LEGAL REPRESENTATIVE:	Mark A. Litman & Assoc. P.A.		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1417		
AB	A multi-lumen, multi-functional catheter system comprising a plurality of axial lumens, at least one lumen supporting a functionality other than material delivery and material removal.		

=> d 15 4-13 ibib abs

L5 ANSWER 4 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 2003:140963 USPATFULL
 TITLE: Antidepressants and their analogues as long-acting local anesthetics and analgesics
 INVENTOR(S): Wang, Ging Kuo, Westwood, MA, UNITED STATES
 Gerner, Peter, Weston, MA, UNITED STATES
 Verrecchia, Donald K., Winchester, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003096805	A1	20030522
APPLICATION INFO.:	US 2002-117708	A1	20020404 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-965138, filed on 26 Sep 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 2001-US30268	20010926
	US 2000-235432P	20000926 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Edward R. Gates, Esq., Chantal Morgan D'Apuzzo, Ph.D., Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA, 02210	
NUMBER OF CLAIMS:	78	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Page(s)	
LINE COUNT:	1402	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	Methods and compositions of antidepressants and analogs thereof for inducing local long-lasting anesthesia and analgesia are provided. The methods and compositions are useful for alleviating acute and chronic pain, particularly useful for treating a localized pain.	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 2002:338467 USPATFULL
 TITLE: Method and system for spinal cord stimulation prior to and during a medical procedure
 INVENTOR(S): Hill, Michael R.S., Minneapolis, MN, UNITED STATES
 Jahns, Scott E., Hudson, WI, UNITED STATES
 Keogh, James R., Maplewood, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002193843	A1	20021219
	US 6690973	B2	20040210
APPLICATION INFO.:	US 2002-215443	A1	20020809 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-669960, filed on 26 Sep 2000, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Daniel W. Latham, Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN, 55432		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Page(s)		
LINE COUNT:	1172		
AB	A method of performing a medical procedure, such as surgery, is provided. The spinal cord is stimulated in order to control at least one physiological function. The medical procedure is performed and stimulation of the spinal cord is stopped.		

L5 ANSWER 6 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 2002:323509 USPATFULL
 TITLE: Methods and apparatus for enhanced and controlled delivery of a biologically active agent into the central nervous system of a mammal
 INVENTOR(S): Lerner, Eduard N., Amsterdam, NETHERLANDS
 PATENT ASSIGNEE(S): Intrabrain International NV, Curacao, NETHERLANDS (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002183683	A1	20021205
APPLICATION INFO.:	US 2002-51817	A1	20020118 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-197133, filed on 20 Nov 1998, GRANTED, Pat. No. US 6410046		
	Continuation of Ser. No. WO 1995-EP9605086, filed on 19 Nov 1995, UNKNOWN		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PERKINS, SMITH & COHEN LLP, ONE BEACON STREET, 30TH FLOOR, BOSTON, MA, 02108		
NUMBER OF CLAIMS:	31		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Page(s)		
LINE COUNT:	1321		
AB	Disclosed are invasive and non-invasive central nervous system (CNS) drug delivery methods and devices for use in these methods that essentially circumvent the blood-brain barrier. More specifically, the disclosed methods and devices utilize iontophoresis as delivery technique that allows for enhanced delivery of a biologically active agent into the CNS of a mammal as well as for (pre)-programmable and controlled transport.		

L5 ANSWER 7 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 2002:311794 USPATFULL
 TITLE: Method and system for spinal cord stimulation prior to and during a medical procedure
 INVENTOR(S): Hill, Michael R.S., Minneapolis, MN, United States
 Jahns, Scott E., Hudson, WI, United States
 Keogh, James R., Maplewood, MN, United States
 PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S.)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6487446	B1	20021126
APPLICATION INFO.:	US 2000-669960		20000926 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wayner, William		
LEGAL REPRESENTATIVE:	Berry, Thomas G., Latham, Daniel W.		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1219		
AB	A method of performing a medical procedure, such as surgery, is provided. The spinal cord is stimulated in order to control at least one physiological function. The medical procedure is performed and stimulation of the spinal cord is stopped.		

L5 ANSWER 8 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:179185 USPATFULL
TITLE: Tricyclic antidepressants and their analogues as long-acting local anesthetics and analgesics
INVENTOR(S): Wang, Ging Kuo, Westwood, MA, UNITED STATES
Gerner, Peter, Weston, MA, UNITED STATES
PATENT ASSIGNEE(S): The Brigham and Woman's Hospital, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002094975	A1	20020718
	US 6545057	B2	20030408
APPLICATION INFO.:	US 2001-965138	A1	20010926 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-235432P	20000926 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Edward R. Gates, Esq., Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA, 02210	
NUMBER OF CLAIMS:	32	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	1006	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	Methods and compositions of tricyclic antidepressants for inducing local long-lasting anesthesia and analgesia are provided. The methods and compositions are useful for alleviating acute and chronic pain, particularly useful for treating a localized pain.	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:157970 USPATFULL
TITLE: Method and device for enhanced delivery of a biologically active agent through the spinal spaces into the central nervous system of a mammal
INVENTOR(S): Lerner, Eduard N., Amsterdam, NETHERLANDS
PATENT ASSIGNEE(S): Intrabrain International NV, Curacao, NETHERLANDS (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2002082583 A1 20020627
APPLICATION INFO.: US 2002-50183 A1 20020118 (10)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-197133, filed
on 20 Nov 1998, PENDING Continuation of Ser. No. WO
1995-EP9605086, filed on 19 Nov 1995, UNKNOWN
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PERKINS, SMITH & COHEN LLP, ONE BEACON STREET, 30TH
FLOOR, BOSTON, MA, 02108
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 927

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A delivery method and implantable apparatus that allows for controlled, enhanced and (pre)-programmable administration of a biologically active agent into the spinal structures and/or the brain via the epidural space of a mammal, particularly of a human being and including a feedback regulated delivery method and apparatus specifically in the treatment of neurological diseases and chronic pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 13 USPATFULL on STN
ACCESSION NUMBER: 1999:45828 USPATFULL
TITLE: Method and apparatus for alleviating cardioversion
shock pain by delivering a bolus of analgesic
INVENTOR(S): Elsberry, Dennis D., New Hope, MN, United States
Mehra, Rahul, Stillwater, MN, United States
Otten, Lynn M., Blaine, MN, United States
Rise, Mark T., Monticello, MN, United States
Thompson, David L., Fridley, MN, United States
PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5893881		19990413
APPLICATION INFO.:	US 1997-920645		19970829 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-525995, filed on 8 Sep 1995, now patented, Pat. No. US 5662689, issued on 2 Sep 1997		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lateef, Marvin M.
ASSISTANT EXAMINER: Layno, Carl H.
LEGAL REPRESENTATIVE: Duthler, Reed A., Patton, Harold R.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 1496

AB An implantable cardioverter for providing cardioversion electrical energy to at least one chamber of a patient's heart in need of cardioversion and applying a pain alleviating therapy at an appropriate site in the patient's body prior to or in conjunction with the delivery of the cardioversion energy to the heart chamber to alleviate propagated pain perceived by the patient. The combined cardioversion and pain alleviating therapies are preferably realized in a single implantable, multiprogrammable medical device or separate implantable cardioversion and pain control devices with means for communicating operating and status commands between the devices through the patient's body.

L5 ANSWER 11 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 1998:121898 USPATFULL
 TITLE: Method and apparatus for alleviating cardioversion shock
 pain
 INVENTOR(S): Elsberry, Dennis D., New Hope, MN, United States
 Mehra, Rahul, Stillwater, MN, United States
 Otten, Lynn M., Blaine, MN, United States
 Rise, Mark T., Monticello, MN, United States
 Thompson, David L., Fridley, MN, United States
 PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5817131		19981006
APPLICATION INFO.:	US 1997-813244		19970307 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-525995, filed on 8 Sep 1995, now patented, Pat. No. US 5662689		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kamm, William E.		
ASSISTANT EXAMINER:	Layno, Carl H.		
LEGAL REPRESENTATIVE:	Duthler, Reed A., Patton, Harold R.		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1595		
AB	An implantable cardioverter for providing cardioversion electrical energy to at least one chamber of a patient's heart in need of cardioversion and applying a pain alleviating therapy at an appropriate site in the patient's body prior to or in conjunction with the delivery of the cardioversion energy to the heart chamber to alleviate propagated pain perceived by the patient. The combined cardioversion and pain alleviating therapies are preferably realized in a single implantable, multiprogrammable medical device or separate implantable cardioversion and pain control devices with means for communicating operating and status commands between the devices through the patient's body.		

L5 ANSWER 12 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 97:77966 USPATFULL
 TITLE: Method and apparatus for alleviating cardioversion
 shock pain
 INVENTOR(S): Elsberry, Dennis D., New Hope, MN, United States
 Mehra, Rahul, Stillwater, MN, United States
 Otten, Lynn M., Blaine, MN, United States
 Rise, Mark T., Monticello, MN, United States
 Thompson, David L., Fridley, MN, United States
 PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5662689		19970902
APPLICATION INFO.:	US 1995-525995		19950908 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kamm, William E.		
ASSISTANT EXAMINER:	Layno, Carl H.		
LEGAL REPRESENTATIVE:	Duthler, Reed A., Patton, Harold R.		
NUMBER OF CLAIMS:	56		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1685		

AB An implantable cardioverter for providing cardioversion electrical energy to at least one chamber of a patient's heart in need of cardioversion and applying a pain alleviating therapy at an appropriate site in the patient's body prior to or in conjunction with the delivery of the cardioversion energy to the heart chamber to alleviate propagated pain perceived by the patient. The combined cardioversion and pain alleviating therapies are preferably realized in a single implantable, multi-programmable medical device or separate implantable cardioversion and pain control devices with means for communicating operating and status commands between the devices through the patient's body.

L5 ANSWER 13 OF 13 USPATFULL on STN

ACCESSION NUMBER: 97:17918 USPATFULL

TITLE: Compositions and methods for enhanced drug delivery

INVENTOR(S): Hale, Ron L., Woodside, CA, United States

Lu, Amy, Los Altos, CA, United States

Solas, Dennis, San Francisco, CA, United States

Selick, Harold E., Belmont, CA, United States

Oldenburg, Kevin R., Fremont, CA, United States

Zaffaroni, Alejandro C., Atherton, CA, United States

PATENT ASSIGNEE(S): Affymax Technologies N.V., Middlesex, England (non-U.S. corporation)

NUMBER	KIND	DATE
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US 5607691		19970304
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US 1995-449188		19950524 (8)
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RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-164293, filed on 9 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-77296, filed on 14 Jun 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-898219, filed on 12 Jun 1992, now abandoned And a continuation-in-part of Ser. No. US 1993-9463, filed on 27 Jan 1993, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Levy, Neil S.

LEGAL REPRESENTATIVE: Stevens, Lauren L.

NUMBER OF CLAIMS: 5

EXEMPLARY CLAIM: 1

LINE COUNT: 5349

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods of delivering pharmaceutical agents across membranes, including the skin layer or mucosal membranes of a patient. A pharmaceutical agent is covalently bonded to a chemical modifier, via a physiologically cleavable bond, such that the membrane transport and delivery of the agent is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.